









Town of Lexington Engineering and Planning Departments

Meeting Purpose

- **■Study Overview**
- Preliminary Recommendations





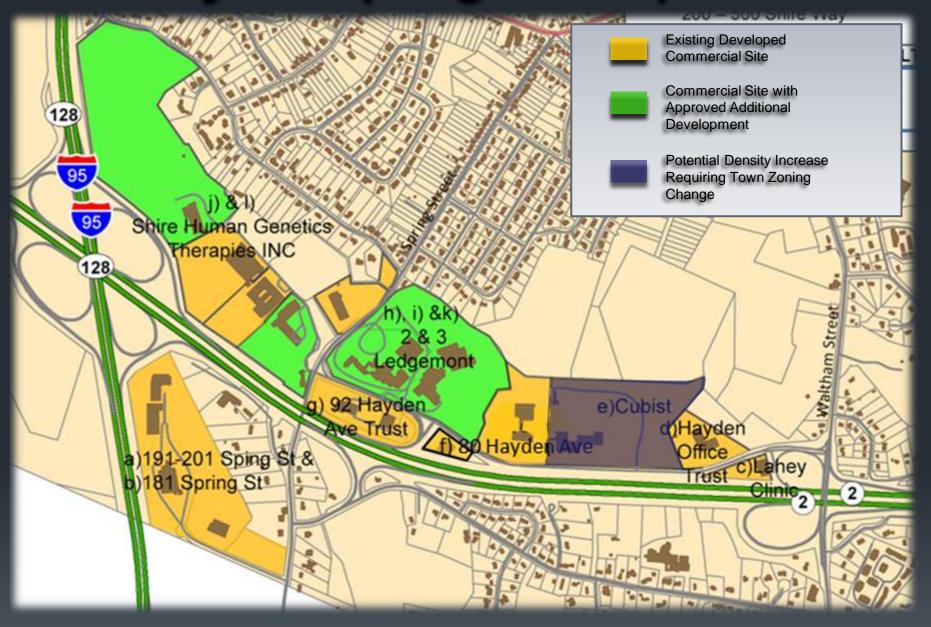
Study Objectives

- Examine cumulative impacts of Hayden/Spring Developments
- Assess future traffic conditions out to a 10-year horizon from 2013 to 2023
- Identify multi-modal traffic issues/opportunities
- Review potential improvement options
- Recommend actions based on feedback, analysis findings, and evaluation of options





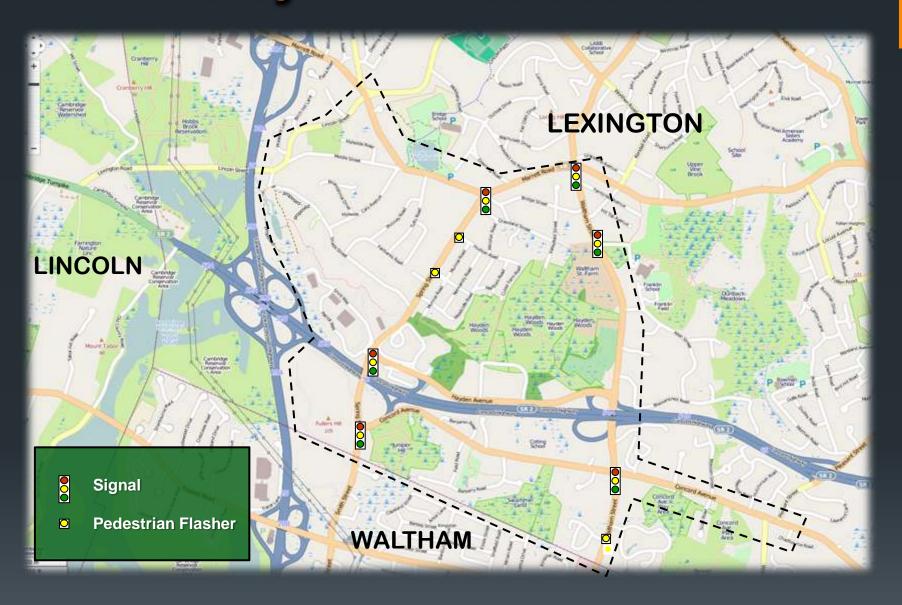
Hayden/Spring Developments







Study Area – Street base







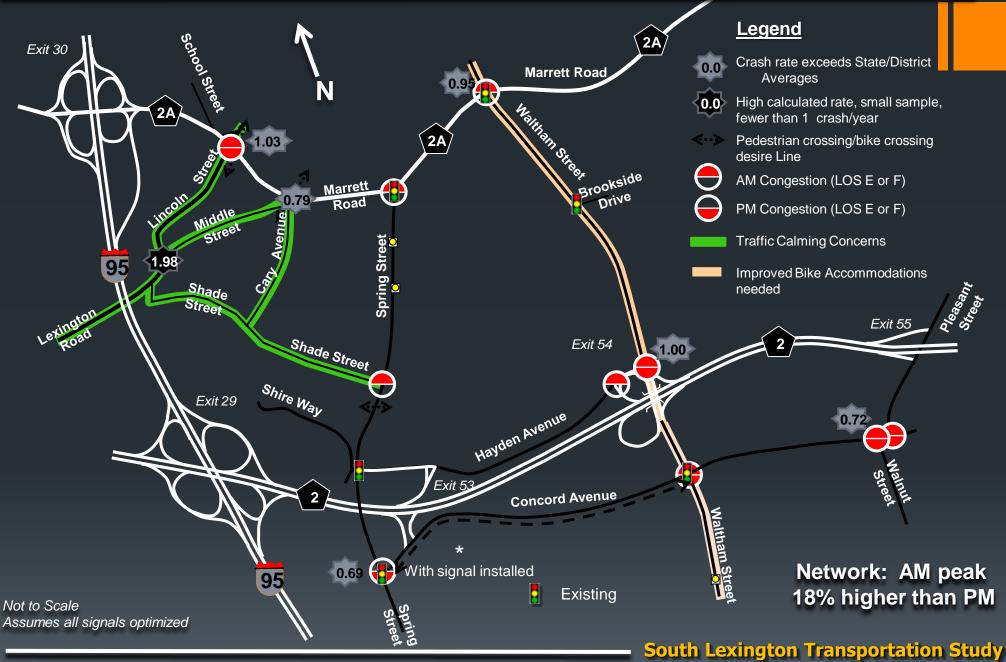
Basis of Preliminary Recommendations

- Year 2013 counts included pedestrians, bikes, cars, trucks, buses
- Analysis of historic crash rates
- Observations & local knowledge
- Technical evaluation of options & public feedback
- Lexington Engineering and Planning Departments discussions & data





Existing (2013) Issues /Findings







2023 Projections





2023 Traffic Growth Assumptions

- ■Background: 0.2% annually; 2% over next ten years – Source CTPS – not under Town's control including peak congestion related diversions between I-95/Route 2
- Additional approved 542 ksf office growth along Spring/Hayden corridor over the next 10 years to existing development of 2.5m ksf
- Generated as General Office using ITE Trip Generation report (9th Edition, 2012)
- ■Total Projected Network Growth by 2023
 - **AM Peak 12%**
 - **■PM** peak 10 %





Assumed Enhancements by 2023



Not to Scale



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Focus Areas





Preliminary Recommendation: Signalize/Add Greenspace Marrett Rd (Rte. 2A) at Lincoln St



Concept not to Scale







Preliminary Recommendation: 'T' Cary and Middle Streets at Marrett Road (Route 2A)



Concept: Not to Scale









Preliminary Recommendation: Signalize & Provide Geometric Bike/Ped Enhancements

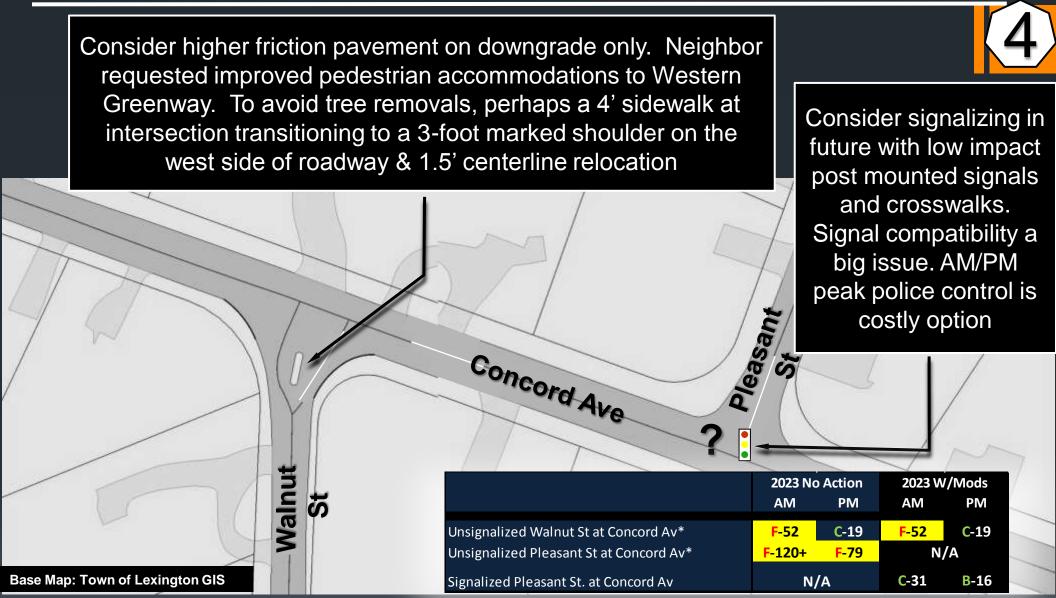








Preliminary Recommendation: Concord Avenue at Walnut Pedestrian Mods /Pleasant Street Signalization





South on Concord Avenue To Walnut Street

4

Consider high friction pavement on downgrade & restriping

Move centerline 1.5' east to create west 3' shoulder and 9-10' travel lanes with 6" edge line on east side

Short raised ADA compliant 4' sidewalk transition to 3' shoulder

Provide no less than 12' Passage

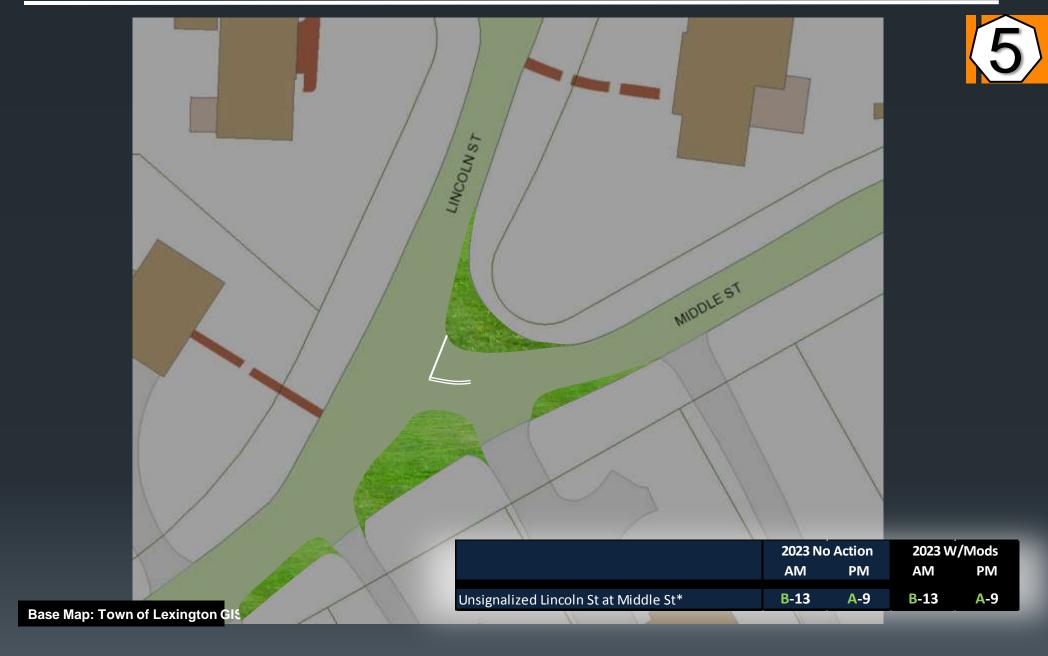
Add ADA crosswalk w/sight line enhancements on Concord Avenue if warrants met with landings both sides

South Lexington Transportation-Study

Town-of Lexington-Engineering and Planning Departments



Preliminary Recommendation: T Lincoln into Middle Streets









Other Recommended Strategies

- ■Emphasize/maximize traffic demand management measures & shuttle buses for all Hayden Avenue commercial development sites to reduce traffic impacts
- New pedestrian or bike crossings --address ADA compliance; sight lines; use recommended FHWA guidelines for crosswalk placement
- Add sharrows with 11-foot travel lanes & shoulders to Waltham Street between Marrett and City of Waltham Line except at interchange where separate bike lanes are needed
- Optimize/regularly maintain all signals & multimodal transportation infrastructure
 South Lexington Transportation Study





Final Thoughts

- ■Town is generally doing a good job with South Lexington multi-modal infrastructure & traffic calming with streets under its jurisdiction
- ■Three of the five focus areas are on MassDOT layouts; require close coordination for implementation design and funding opportunities
- Lexington Town standard -- level of service D for worse constrains maximum commercial development to 'moderate' growth already approved
 - Alternatively, if the Town desires continued Hayden Avenue commercial growth, it could adopt MEPA guidelines; mitigate major impacts to no worse than No-Build





